

# Trail Tools and Mechanized Equipment



# **Trail Tools and Mechanized Trail Equipment**

## **Session Objectives:**

- To Identify and Understand Uses for Common Hand, Gas Powered and Mechanized Trail Tools
- Introduction to Specialized Tools Use for Trail Work or Tools Adapted from Other Trades for Trail Work

Trail Work  
Requires:

Moving &  
Building With  
Large  
Materials  
& Objects

Often In  
Remote  
Locations



# Working Trails Becomes a Matter



# Hand Tools

- Brushing and Cutting Tools



# Hand Tools

- Brushing Tools



# Hand Tools

- Cutting Tools



# Hand Tools

- Earth Moving Tools



# Hand Tools

- **Earth Moving Tools**



# Hand Tools

- **Shaping and Finishing Tools**



# Hand Tools

- Wood Working Tools



# Hand Tools

- Wood Working Tools



# Hand Tools

- Transport Tools



# Hand Tools

- Transport Tools





**Other Human Powered Transport devices**

# Power Tools

- Wood Working Tools
- Cutting and Brushing Tools
- Electric Tools
- Excavation Tools
- Specialty Tools

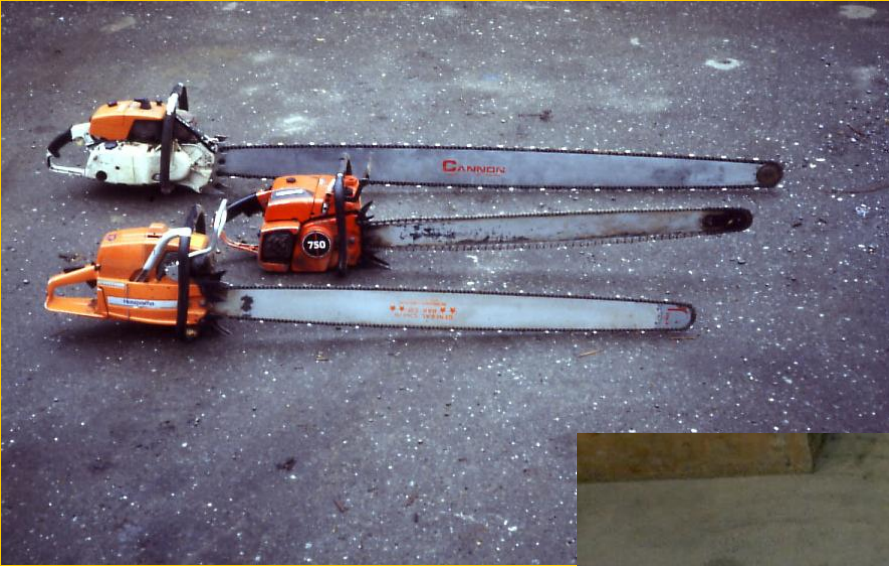
# Power Tools

- Wood Working Tools



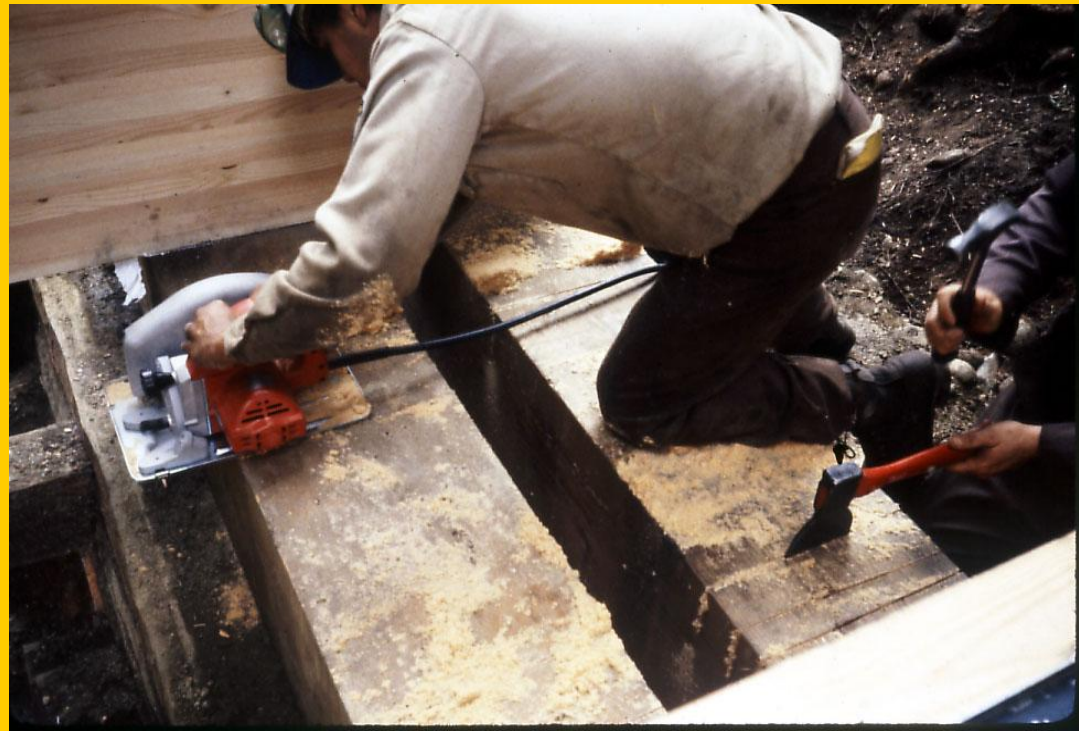
# Power Tools

- Brushing and Cutting Tools



# Power Tools

- Electric Tools



# Power Tools

- Excavation Tools



# Power Tools

- Specialty Tools



# Power Tools

- Transport Tools





# Mechanized Trail Equipment

- Dozers
- Excavators
- Material Haulers



# Trail Dozers

*Sweco Trail Dozer 480*



Trail Dozers in are Most Efficient in the  
Right Conditions



***Morrison Type Mini-Excavator***

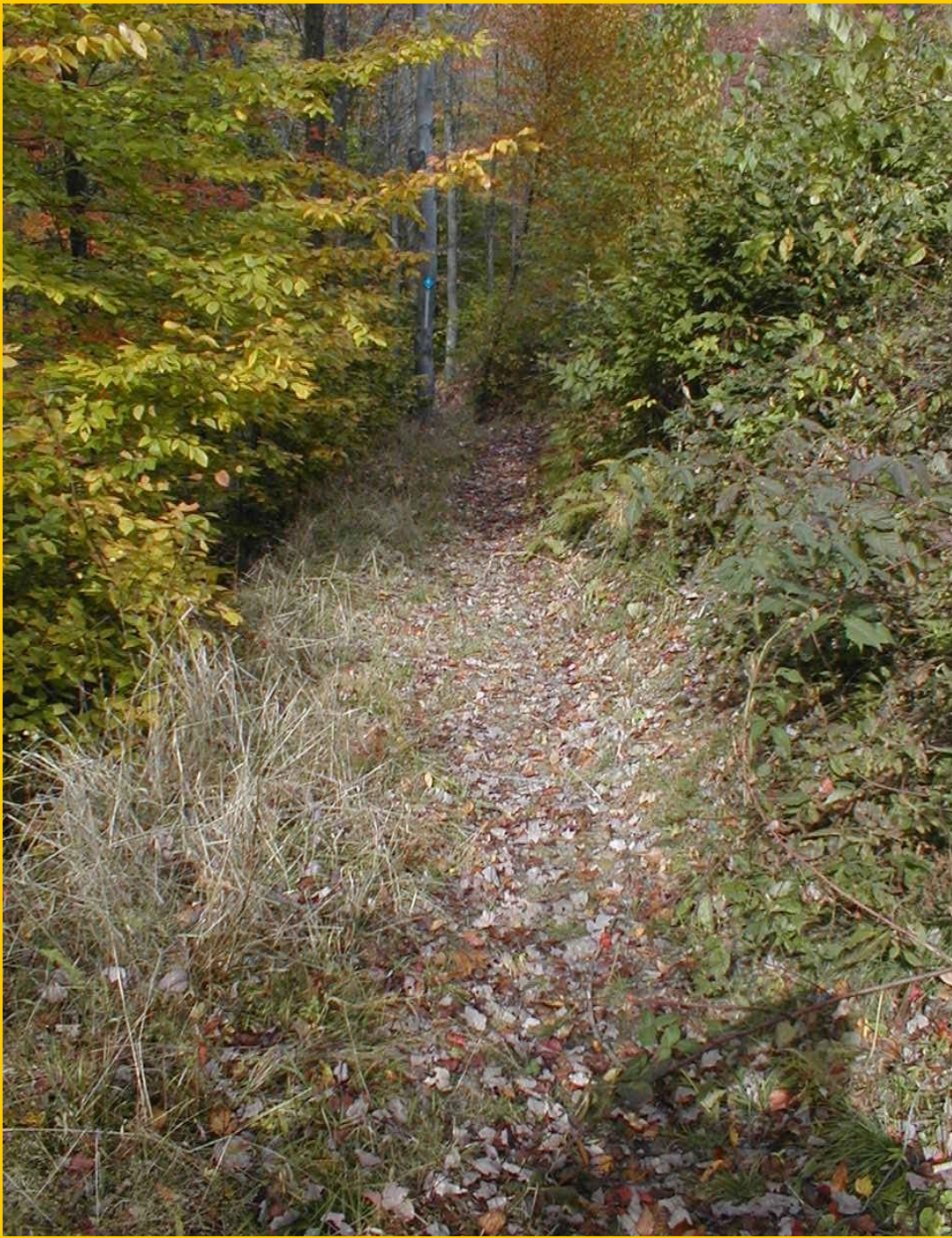


# Mini-Excavators

*Mini-Excavator with Rock Hammer Attachment*



**Mini Excavator Trail Construction**



# Dozer and Mini-Excavator Often Used Together





# Self Propelled Hauler

*John Deere Gator*

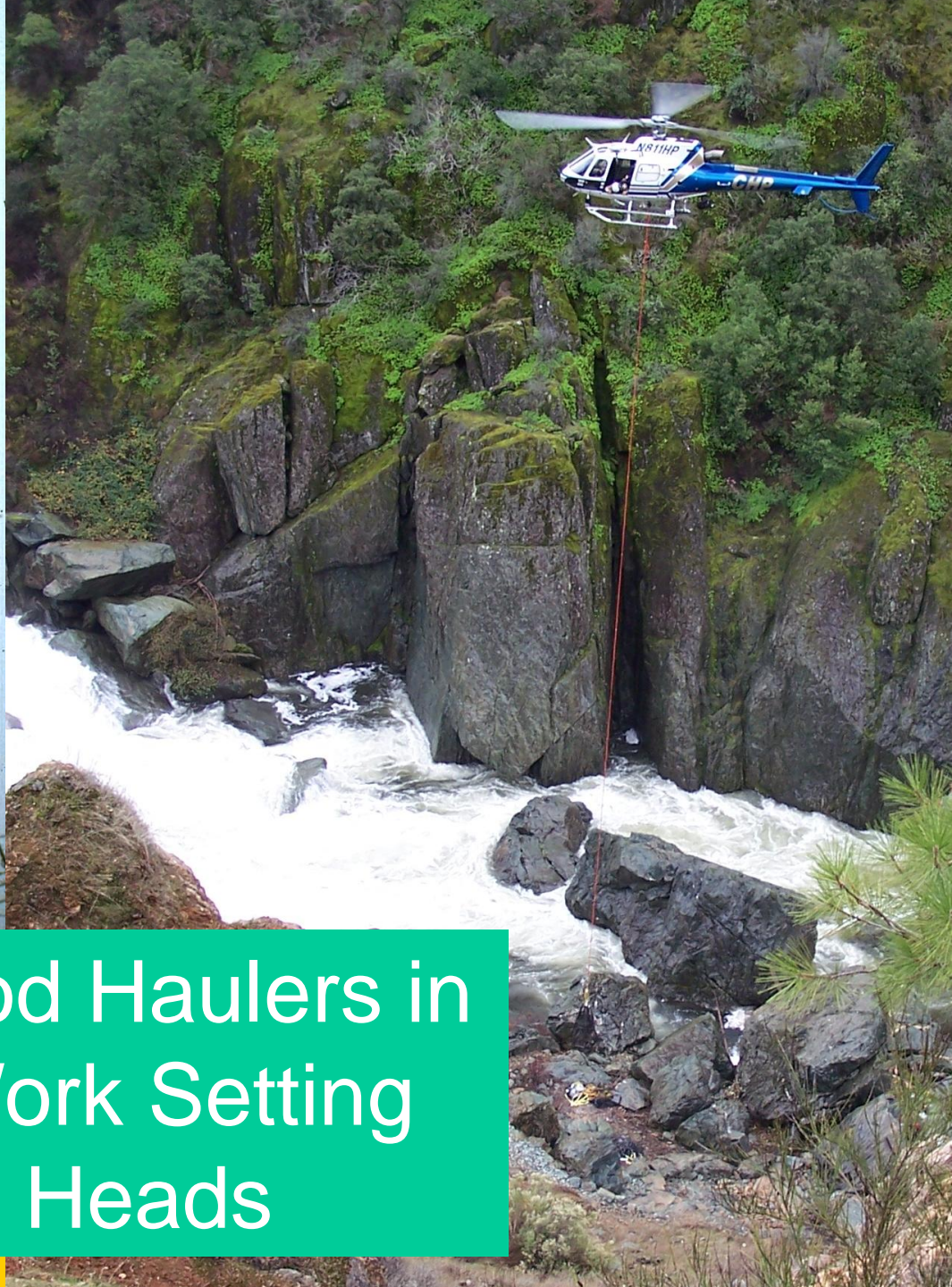


# Trail Haulers

*Alltrack Trail Dumper*

## Heavier Equipment is Sometimes Needed For Trails of Extreme Use Such as ATV or Intense Equestrian Activity





Helicopters are Good Haulers in  
Steep or Remote Work Setting  
Removed from Trail Heads

# Vehicles

- Service Trucks



# Vehicles

- Transport Vehicles



# Vehicles

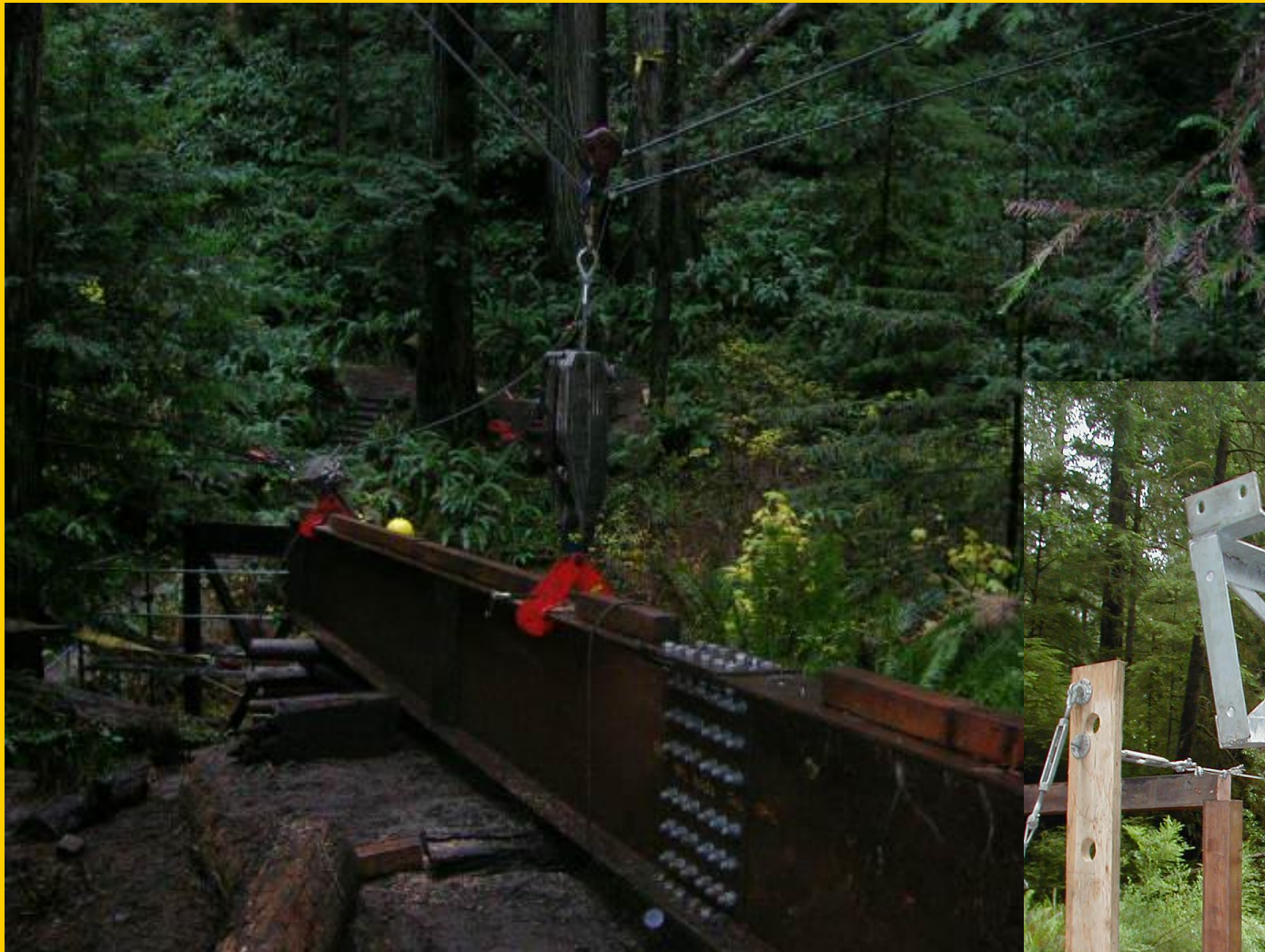
- Specialized Vehicles



# Specialized Trail Tools

- Rigging
- Rock Work
- Hauling
- Spike Camps

# Rigging



**Used for Moving Large Heavy Objects  
or for Holding Components in Position  
for Ease of Assembly**



# Rigging

- **Griphoist**



# Rigging

- **Miscellaneous Rigging Equipment**



# Rigging

- Climbing Ladders Assist in Setting Rigging for High Lead Applications





## Rock Tools

- Chisels, Plugs and Feathers, Swedging Hammers

# Rock Tools

## Boulder Buster/Rock Cracker



# Splitting Tools



# Horse and Mule Packing

- Wilderness Essential for Material, Supplies, Tools and Logistical Support



# Specialized Personal Gear



# Scaffolding



# Geo-Textile Fabric



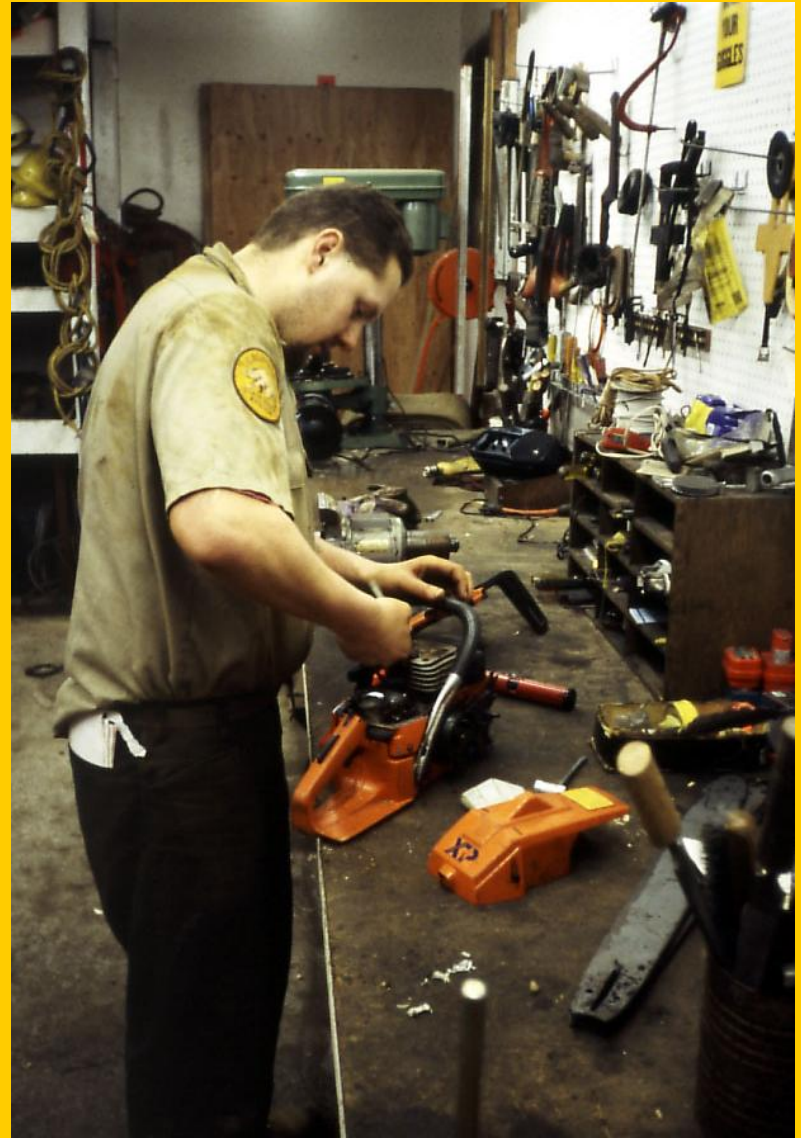
# Spike Camps



# Tool Maintenance



# Shop Facilities



# Training



# Session Summary

- Trail Tools Come in Many Forms, From Specialized Trail Project Tools to Adapted Tools from Other Trades or Wild Land Fire Fighting
- Many Small-Sized Mechanized Equipment has been Developed or Adapted for Trail Construction
- Many Trail Tools Mitigate Potential Worker Injury

# Session Summary

- Locations Require Tools and Equipment Support for Logistics and Transport of Materials
- The Keen Trail Worker will Always be Looking to Adapt “Front Country” Tools for Use in Remote Trail Work Locations

# Hand Tool Exercise

In your power point notes there is a picture of a specialized trail tool. Take a few minutes and write next to each tool:

- Tool Name
- Tool Purpose
- How is Tool Used
- Safety Considerations for Tool Use

